



SEQUENCE LISTING

<110> ROY, ARUN K.
LAVROVSKY, YAN
TYAGI, RAKESH K.
SONG, CHUNG S.
CHATTERJEE, BANDANA
CHEN, SHUO

<120> ESTROGEN RECEPTOR SITE-SPECIFIC RIBOZYMES AND USES
THEREOF FOR ESTROGEN DEPENDENT TUMORS

<130> UTSK:379US

<140> 10.009,420
<141> 2001-12-04

<160> 14

<170> PatentIn Ver. 2.1

<210> 1
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 1
gcctgggtgtg ctccgatgaa gc

22

<210> 2
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 2
cctgcagtgg cttgctgaat cc

22

<210> 3
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 3

gaugaguccg ugaggacgaa a

21

<210> 4
<211> 1380
<212> DNA
<213> Homo sapiens

<400> 4
ggagccctg aaccgtccgc agctcaagat ccccccggag cggcccccgg gcgagggtgt 60
cctggacagc agcaagcccg ccgtgtacaa ctaccccgag ggcgcggcct acgagttcaa 120
cggcggcc gccgccaacg cgcaggctta cggtcagacc ggcctccct acggccccgg 180
gtctgaggct gcggcggtcg gctccaacgg cctgggggggt ttccccccac tcaacagcgt 240
gtctccgagc ccgctgatgc tactgcaccc gccgcgcag ctgtcgccct tcctgcagcc 300
ccacggccag caggtgcct actacctgga gaacgagccc agcggctaca cggtgccgca 360
ggccggcccg ccggcattct acaggccaaa ttcaagataat cgacgcccagg gtggcagaga 420
aagattggcc agtaccaatg acaagggaag tatggctatg gaatctgcca aggagactcg 480
ctactgtgca gtgtgcaatg actatgcttc aggctaccat tatggaggtct ggtcctgtga 540
gggctgcaag gccttcttca agagaagtat tcaaggacat aacgactata tgtgtccagc 600
caccaaccag tgcaccattg ataaaaacag gaggaagagc tgccaggcct gccggctccg 660
caaattgtac gaagtggaa ttagtggaaagg tgggatacga aaagaccgaa gaggagggag 720
aatgttggaaa cacaagcgcc agagagatga tggggaggc aggggtgaag tggggctgc 780
tggagacatg agagctgcca accttggcc aagccgcctc atgatcaaac gctctaagaa 840
gaacagcctg gccttgcctc tgacggccga ccagatggtc agtgccttgc tggatgctga 900
gccccccata ctctattccg agtatgatcc taccagaccc ttcagtgaag ctgcgtat 960
gggcttactg accaacctgg cagacaggga gctggttcac atgatcaact gggcgaagag 1020
gggccaggc tttgtggatt tgaccctcca tgatcaggc caccttctag aatgtgcctg 1080
gcttagagatc ctgatgattt gtctcgctg ggcctccatg gagcaccagg tgaagctact 1140
gtttgctcct aacttgctct tggacaggaa ccagggaaaa tgtgttagagg gcatggtgga 1200
gatcttcgac atgctgctgg ctacatcatc tcggttccgc atgatgaatc tgcaggggaga 1260
ggagttgtg tgcctcaaat ctattattt gcttaattct ggagtgtaca catttctgtc 1320
cagcacccctg aagtctctgg aagagaagga ccatatccac cgagtccctgg acaagatcac 1380

<210> 5
<211> 2092
<212> DNA
<213> Homo sapiens

<400> 5
gaattccaaa attgtgatgt ttcttgtatt tttgatgaag gagaaatact gtaatgatca 60
ctgtttacac tatgtacact ttaggcagc cttttgtac gttatacaaa ctgaaagcac 120
accggaccccg caggctcccg gggcagggcc gggggccagag ctcgcgtgtc ggcgggacat 180
gctgcgtgc gcctctaacc tcgggctgtc ctctttcc aggtggcccg ccggttctg 240
acccctctgc cctgcgggaa cacggctctgc accctgccc cggccacgga ccatgaccat 300
gaccctccac accaaagcat ctgggatggc cctactgcat cagatccaag ggaacgagct 360
ggagccctg aaccgtccgc agctcaagat ccccccggag cggcccccgg gcgagggtgt 420
cctggacagc agcaagcccg ccgtgtacaa ctaccccgag ggcgcggcct acgagttcaa 480
cggcggcc gccgccaacg cgcaggctta cggtcagacc ggcctccct acggccccgg 540
gtctgaggct gcggcggtcg gctccaacgg cctgggggggt ttccccccac tcaacagcgt 600
gtctccgagc ccgctgatgc tactgcaccc gccgcgcag ctgtcgccct tcctgcagcc 660
ccacggccag caggtgcct actacctgga gaacgagccc agcggctaca cggtgccgca 720
ggccggcccg ccggcattct acaggccaaa ttcaagataat cgacgcccagg gtggcagaga 780
aagattggcc agtaccaatg acaagggaag tatggctatg gaatctgcca aggagactcg 840
ctactgtgca gtgtgcaatg actatgcttc aggctaccat tatggaggtct ggtcctgtga 900
gggctgcaag gccttcttca agagaagtat tcaaggacat aacgactata tgtgtccagc 960
caccaaccag tgcaccattg ataaaaacag gaggaagagc tgccaggcct gccggctccg 1020

caaatgctac gaagtggaa tcatgaaagg tggatacga aaagaccgaa gaggagggag 1080
aatgtgaaa cacaagcgcc agagagatga tggggaggc aggggtaag tgggtctgc 1140
tggagacatg agagctgcc accttggcc aagccgctc atgatcaaac gctctaagaa 1200
gaacagcctg gccttgcctc tgacggccga ccagatggtc agtgcctgt tggatgctga 1260
gccccccata ctctattccg agtatgatcc taccagaccc ttcagtgaag ctgcgtat 1320
ggccttactg accaacctgg cagacaggga gctggtcac atgatcaact gggcaagag 1380
gggccaggg tttgtggatt tgaccctcca tgatcaggc caccttctag aatgtgcctg 1440
gctagagatc ctgatgattg gtctcgctg gcgcctcatg gagcaccagg tgaagctact 1500
gtttgctctt aacttgctct tggacaggaa ccaggaaaaa tttgttagagg gcatggtgga 1560
gatcttcgac atgctgctgg ctacatcatc tcgggtccgc atgatgaatc tgcaggaga 1620
ggagtttgc tgcctcaat ctattattt gcttaattct ggagtgtaca catttctgtc 1680
cagcaccctg aagtctctgg aagagaagg ccataatccac cgagtcctgg acaagatcac 1740
agacactttt atccacactga tggccaaggc aggctgacc ctgcagcagc agcaccagcg 1800
gctggcccaag ctcctcctca tcctctccca catcaggcac atgagtaaca aaggcatgga 1860
gcatctgtac agcatgaagt gcaagaacgt ggtgcccctc tatgacccctgc tgctggagat 1920
gctggacgccc accgcctac atgcgcccac tagccgtgga ggggcattccg tggaggagac 1980
ggaccaaagc cacttggcca ctgcgggctc tacttcatcg cattccttgc aaaagtatta 2040
catcacgggg gaggcagagg gttccctgc cacagtctga gagctccctg gc 2092

<210> 6
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 6
uauauguguc cagccaccaa 20

<210> 7
<211> 41
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 7
uugguggcug cugaugaguc cgugaggacg aaacacauau a 41

<210> 8
<211> 10
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 8
uauauguguc 10

<210> 9
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic Oligonucleotide

<400> 9
cagccaccaa 10

<210> 10
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic Oligonucleotide

<400> 10
uuauggaguc ugguccugug a 21

<210> 11
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic Oligonucleotide

<400> 11
ucacaggacc acugaugagu ccgugaggac gaaacuccau aa 42

<210> 12
<211> 10
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic Oligonucleotide

<400> 12
uuauggaguc 10

<210> 13
<211> 11
<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 13

ugguccugug a

11

<210> 14

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Oligonucleotide

<400> 14

ucacaggacc acuuauugagu ccgugaggac gaaccuccau aa

42